Rule 1133.3

Chris Ravenstein
Air Quality Inspector II
Rule 1133.3- Emission Reductions from Greenwaste Composting
Adopted July 8, 2011

• Purpose
  – To reduce fugitive emissions of VOCs and ammonia occurring during greenwaste composting operations

• Applicability
  – Operators of all new and existing greenwaste composting operations that produce active or finished compost from greenwaste by itself or greenwaste in combination with manure or foodwaste, unless exempted
The following activities are exempt from the requirements of Rule 1133.3:

- Co-composting operations
- Community composting
- Nursery composting
- Backyard composting
- Recreational facility composting
- Greenwaste composting operations with an installed emission control device are exempt from a portion of Rule 1133.3
Requirements

• Chip or grind and use greenwaste for on-site composting

• Use foodwaste for on-site composting within 48 hours of receipt or cover foodwaste with screened or unscreened finished compost until used
Requirements (continued)

Facilities composting greenwaste only, up to 20 percent manure, by volume, or up to 5,000 tons per year of foodwaste throughput:

- Cover each active phase pile with screened or unscreened finished compost within twenty-four hours of initial pile formation
- New piles shall not be turned for the first seven days of the active phase of composting
Requirements (continued)

• For the active phase, turn only wet piles

• If the pile needs to be turned within the first seven days for managing temperature or pathogen reduction, the operator does not need to re-apply the screened or unscreened finished compost cover and shall apply water for the first fifteen days of the active phase

• Conduct squeeze ball test before turning
Squeeze – Hand Pressure Grip
Fail – Not Wet Enough
Pass
Requirements (continued)

• Existing facilities composting greater than 5,000 tons per year of foodwaste
  — Active phase composting with >10% foodwaste shall be conducted using an emission control device

• New greenwaste composting operations that intend to compost greater than 5,000 tons per year of foodwaste throughput
  — Obtain a permit for an emission control device prior to construction
Existing greenwaste composting operations > 5,000 tons per year of foodwaste:

• Emission control device

• Source test after implementation and every three years thereafter
Recordkeeping

• Records shall be kept in a format approved by the Executive Officer

• Records shall be maintained for the prior five years, with the most recent two years retained at the facility
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/1/2011</td>
<td>Received greenwaste: 2t (8cy), 3t (12cy), 4t (16cy)</td>
<td></td>
</tr>
<tr>
<td>9/1/2011</td>
<td>Received foodwaste: 4t</td>
<td></td>
</tr>
<tr>
<td>9/1/2011</td>
<td>Rcvd manure: 5cy</td>
<td></td>
</tr>
<tr>
<td>9/1/2011</td>
<td>Created new pile (#11-18), covered with unscreened finished</td>
<td></td>
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<tr>
<td>9/1/2011</td>
<td>Watered pile #11-18</td>
<td></td>
</tr>
<tr>
<td>9/2/2011</td>
<td>Rained hard 3 hours, all piles passed squeeze test, no watering</td>
<td></td>
</tr>
<tr>
<td>9/2/2011</td>
<td>Turned active piles: 11-14, 11-15, 11-16, 11-17</td>
<td></td>
</tr>
<tr>
<td>9/2/2011</td>
<td>Removed from feedstock: 1.5t wood, 0.75t trash</td>
<td></td>
</tr>
<tr>
<td>9/30/2011</td>
<td>Total Greenwaste Rcvd: 120t (480cy)</td>
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</tr>
<tr>
<td>9/30/2011</td>
<td>Foodwaste Tonnage (non-foodwaste material/tons)</td>
<td></td>
</tr>
<tr>
<td>9/30/2011</td>
<td>Total Foodwaste Rcvd: 43t</td>
<td></td>
</tr>
<tr>
<td>9/30/2011</td>
<td>Total Manure Rcvd: 88cy</td>
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<tr>
<td>9/30/2011</td>
<td>Total material shipped offsite for disposal: 2.5t</td>
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